

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
3 August 2006 (03.08.2006)

PCT

(10) International Publication Number  
**WO 2006/079875 A1**

(51) International Patent Classification:  
**C01B 33/18** (2006.01)

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
**PCT/IB2005/002161**

(22) International Filing Date: 6 July 2005 (06.07.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PA/a/2005/001211  
31 January 2005 (31.01.2005) MX

(71) Applicant (for all designated States except US): **GCC TECHNOLOGY AND PROCESSES S.A. [CH/CH]**; Avenue de Rumine, 37, CH-1005 Lausanne (CH).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **GARCIA LUNA, Armando** [MX/MX]; Avenida Linda Vista No. 117, Col. Lindavista, Monterrey, Nuevo Leon 67130 (MX). **VALEN-ZUELA GRADO, Jaime** [MX/MX]; Calle Quinta No. 6705, Col. Nombre de Dios, 31110 Chihuahua (MX).

(74) Agent: **GAYTAN GUZMAN, Patricia**; Actua Bufete y Asociados S.A. de C.V., Cerrada del Club No. 6, Fraccionamiento Villas Kent, Col. La Asuncion, 52140 Metepec, Estado de Mexico (MX).

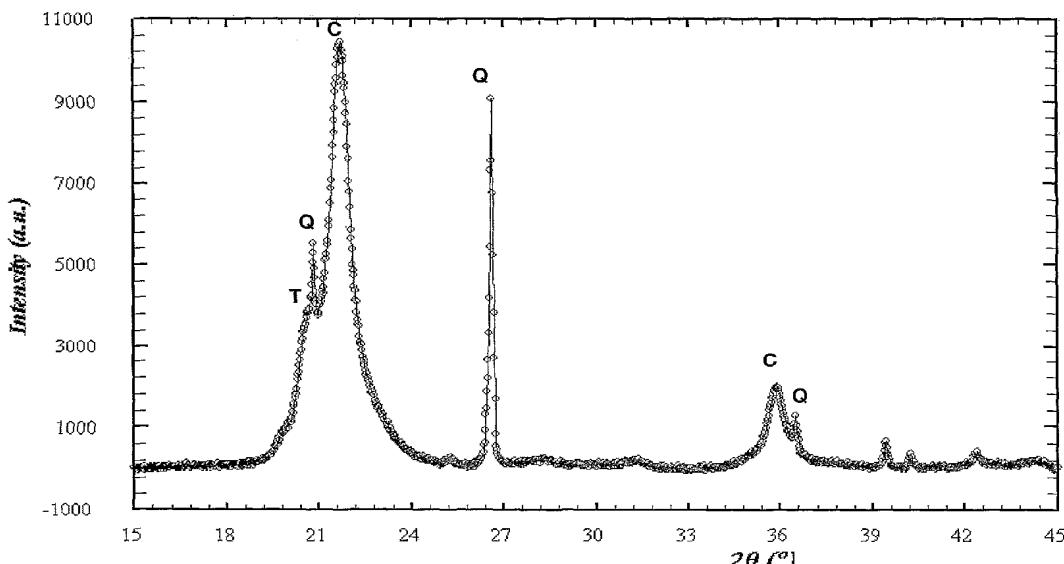
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

[Continued on next page]

(54) Title: IMPROVED MICROSILICA, ITS APPLICATION LIKE POZZOLANIC MATERIAL AND METHODS FOR ITS OBTAINING



(57) Abstract: A new pozzolanic material basically conformed of microsilica with a minimum of silica of 85% in its composition is described, where the silica of the material is conformed mainly of cristobalite and tridomite. Unlike microsilica conformed basically of quartz, the microsilica of the invention exhibits greater pozzolanic indexes and provides improved characteristics of durability to concrete cements and in smaller proportions. Also simple and low consumption energy methods for obtaining the pozzolanic material of the invention are described.

**WO 2006/079875 A1**



**Published:**

— *with international search report*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*